

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
8 August 2002 (08.08.2002)

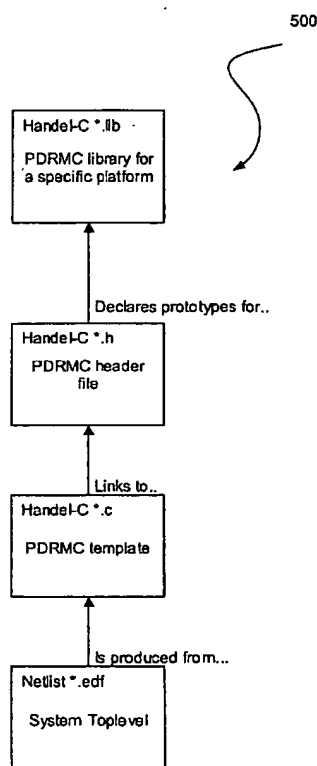
PCT

(10) International Publication Number  
**WO 02/061577 A3**

- (51) International Patent Classification<sup>7</sup>: **G06F 9/44, 9/445**
- (21) International Application Number: **PCT/GB02/00390**
- (22) International Filing Date: **29 January 2002 (29.01.2002)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:  
09/772,710 29 January 2001 (29.01.2001) US  
09/872,167 31 May 2001 (31.05.2001) US
- (71) Applicant (for all designated States except US): **CELOX-ICA LIMITED [GB/GB]; 7 Milton Park, Abingdon, Oxfordshire OX14 4RT (GB).**
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **ALEXANDER, John, Gordon, Lee [GB/GB]; 187 Banbury Road, Summertown, Oxfordshire, Oxford OX2 7AR (GB). HAMID, Hammad [GB/GB]; 54 Bradley Road, Slough, Berkshire SL1 3PP (GB).**
- (74) Agents: **NICHOLLS, Michael, John et al.; J.A. Kemp & Co., 14 South Square, Gray's Inn, London WC1R 5JJ (GB).**
- (81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**
- Published:  
— with international search report

[Continued on next page]

(54) Title: **APPLICATION PROGRAM INTERFACE FOR PROGRAMMABLE ARCHITECTURE CORES**



(57) Abstract: A system and computer program product are provided for allowing an application to be integrated with any one of a plurality of distinct types of programmable platforms. First included is a platform-independent application and a platform-independent interface. The platform-independent interface is capable of interfacing the platform-independent application with any one of the distinct types of programmable platform. The programmable platform is further equipped with a platform-dependent interface. This platform-dependent interface serves in conjunction with the platform-independent interface in providing the interface between the platform-independent application and the programmable platform. As such, a versatile framework is provided that allows the reuse of the platform-independent application on numerous different types of programmable platforms.

WO 02/061577 A3



(88) Date of publication of the international search report:  
27 November 2003

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

Inter national Application No

PC1/GB 02/00390

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 G06F9/44 G06F9/445

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 860 773 A (ALSTHOM CGE ALCATEL) 26 August 1998 (1998-08-26) column 1, line 1 -column 9, line 56 ---	1-19
Y	EP 0 994 416 A (SUN MICROSYSTEMS INC) 19 April 2000 (2000-04-19) column 1, line 1 -column 12, line 46 ---	1-19
Y	PATENT ABSTRACTS OF JAPAN & JP 011 149385 A (HITACHI LTD), 2 June 1999 (1999-06-02) abstract & US 2001/016879 A1 23 August 2001 (2001-08-23) page 1, paragraph 1 -page 2, paragraph 19 --- -/--	1-19



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

7 May 2003

Date of mailing of the international search report

14/05/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Lo Turco, S

## INTERNATIONAL SEARCH REPORT

Inter al Application No

PC1/GB 02/00390

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 026 238 A (BOND BARRY ET AL) 15 February 2000 (2000-02-15) column 1, line 1 -column 2, line 42 ----	1-19
A	US 6 131 166 A (WONG-INSLEY BECKY) 10 October 2000 (2000-10-10) column 1, line 11 -column 4, line 16 ----	1-19
A	US 5 583 983 A (SCHMITTER ROBERT L) 10 December 1996 (1996-12-10) column 1, line 1 -column 3, line 38 ----	1-19
A	US 6 063 128 A (BENTLEY KEITH ET AL) 16 May 2000 (2000-05-16) column 1, line 10 -column 6, line 24 ----	1-19
A	US 6 154 836 A (DAWSON III MARSHALL ALLEN ET AL) 28 November 2000 (2000-11-28) column 1, line 1 -column 3, line 9 ----	1-9
A	US 5 748 980 A (LIPE RALPH A ET AL) 5 May 1998 (1998-05-05) column 1, line 10 -column 10, line 51 -----	1-19

## INTERNATIONAL SEARCH REPORT

Intern: al Application No

PCT/GB 02/00390

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0860773	A	26-08-1998	EP 0860773 A1	26-08-1998
			JP 10240509 A	11-09-1998
			US 6052527 A	18-04-2000
EP 0994416	A	19-04-2000	EP 0994416 A2	19-04-2000
JP 011149385	A	02-06-1999	JP 2001216172 A	10-08-2001
			US 2001025371 A1	27-09-2001
			US 2001016879 A1	23-08-2001
US 6026238	A	15-02-2000	EP 1021762 A1	26-07-2000
			JP 2001516079 T	25-09-2001
			WO 9909474 A1	25-02-1999
			US 6233731 B1	15-05-2001
			US 2001008023 A1	12-07-2001
US 6131166	A	10-10-2000	NONE	
US 5583983	A	10-12-1996	NONE	
US 6063128	A	16-05-2000	US 5815415 A	29-09-1998
			US 5987242 A	16-11-1999
US 6154836	A	28-11-2000	TW 448401 B	01-08-2001
US 5748980	A	05-05-1998	US 5787246 A	28-07-1998
			US 5655148 A	05-08-1997
			US 6336152 B1	01-01-2002
			US 5793979 A	11-08-1998
			US 5819107 A	06-10-1998
			US 5809329 A	15-09-1998
			US 2003041088 A1	27-02-2003
			US 6003097 A	14-12-1999